

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP PROGRAM
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

PROJECT INFORMATION

Project Title: Redevelopment of Vulture Mtns. #4 Mule Deer Catchment		Project No. 09-401
Region/GMU: Region IV / Game Mgmt. Unit 42	HPC:	
Project Type: Water Development		
Project Description: Redevelopment of an existing mule deer water catchment in the Vulture Mountains (#598) that was severely damaged by winds in 2007.		
Wildlife Species to Benefit: Mule Deer (primary) Small game/Nongame (secondary)		
Possible Funding Partners: Arizona Deer Association, Southwest Hunting Adventures		
Implementation Schedule: Beginning: March, 2010 Completed: April, 2010		

PROJECT FUNDING

SBG Funds Requested: \$ 17,705.00
Cost Share Funds: \$ 6,040.00
Total Project Costs: \$ 23,745.00

PARTICIPANT INFORMATION

Applicant: Craig Heath (please print) Telephone: 623-882-2140	Address: 9140 E. 28 th Street Yuma, AZ 85365
AGFD Contact and Phone No. (If applicant is not AGFD personnel)	
Coordinated with: BLM (Phoenix FO), ADA	Date: August 20, 2008
Applicant's signature:	Date: August 26, 2009

SEND COMPLETED APPLICATIONS TO:

Game Branch
 2221 W. Greenway Rd.
 Phoenix, AZ 85023
rothompson@azgfd.gov

NEED STATEMENT/PROBLEM ANALYSIS:

AZGFD wildlife water #598 was originally constructed in 1962 for mule deer in the Vulture Mountains. It receives heavy summertime use by mule deer. In 2007, the updated ring tank and tin apron section failed and were severely damaged by high winds. The original concrete vault system continues to function but the storage capacity is small and requires several water hauling trips in a normal year.

PROJECT OBJECTIVES:

Reduce long-term maintenance cost by increasing the storage capacity and reliability of a well-used mule deer water catchment that has functioned in a dry, remote portion of the Vulture Mountains of GMU 42.

PROJECT STRATEGIES:

Remove the remains of the ring tank and tin apron system and replace it with a buried PVC system with a collection dam that will capture surface runoff and overflow from the existing concrete system.

PROJECT LOCATION:

Vulture Mountains, Maricopa County, AZ (T.6N, R.6W, S16) (33° 51.394' 112° 53.360')

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

U.S. Bureau of Land Management (Phoenix Field Office)

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

N/A

HABITAT DESCRIPTION:

The Vulture Mountains range in elevation from 2200' at their base to 3660' at Vulture Peak. The topography is mostly gently rolling hills with some rugged cliffs along Vulture Peak. The Sonoran desertscrub vegetative community encompasses the mountain range with two sub-divisions evident: the Upper Sonoran desertscrub community and the Lower Sonoran desertscrub community as described by Brown and Lowe (1980). The nearest perennial deer water is 3.06 miles to the east.

ITEMIZED USE OF FUNDS:

Materials:

PVC System - 24"dia. x 100' =(\$3,000.00) x 4 runs (400' or 10,000 gallons) = \$12,000

Note: The price is per 100' run, the number of runs utilized will depend upon desired storage capacity. Price includes one end cap, one outlet end cap, vent pipe, glue, primer, and lubricant. This system requires a 30" Fiberglass Walk-in Trough.

Walk-in trough = \$705

Southwest Hunting Adventures volunteer Backhoe and Operator(John Deere 310 G 4x4 or equivalent, 4 days total) = \$1,380

Standard pipe rail fence (150' x 150') = \$3,000

Miscellaneous materials = \$2,000

BLM NEPA Documents (cost share) = \$1,000

Volunteer labor (ADA) - @ \$183/day x 20 man days (cost share) = \$3,660

Total Project Cost = \$23,745

Total Volunteer Credit = \$6,040

Total Funds Needed = \$17,705

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Region IV in conjunction with Habitat Branch and BLM personnel have completed the necessary environmental clearances for the project (BLM EA# AZ-020-7-76 and DNA# AZ-210-2008-026). AGFD Region IV will provide construction coordination including transport of necessary tools and material to and from the project area. The Arizona Deer Association (ADA) will provide volunteer labor associated with construction of the water development. Volunteers from Southwest Hunting Adventures will provide a backhoe and operator.

PROJECT MONITORING PLAN:

AGFD Region IV will monitor water levels according to the Regional water development protocol.

PROJECT MAINTENANCE:

AGFD Region IV will monitor water levels according to the Regional water development protocol.

PROJECT COMPLETION REPORT TO BE FILED BY:

Craig Heath, AGFD Region IV.

WATER DEVELOPMENT PROJECTS (see attached worksheet):

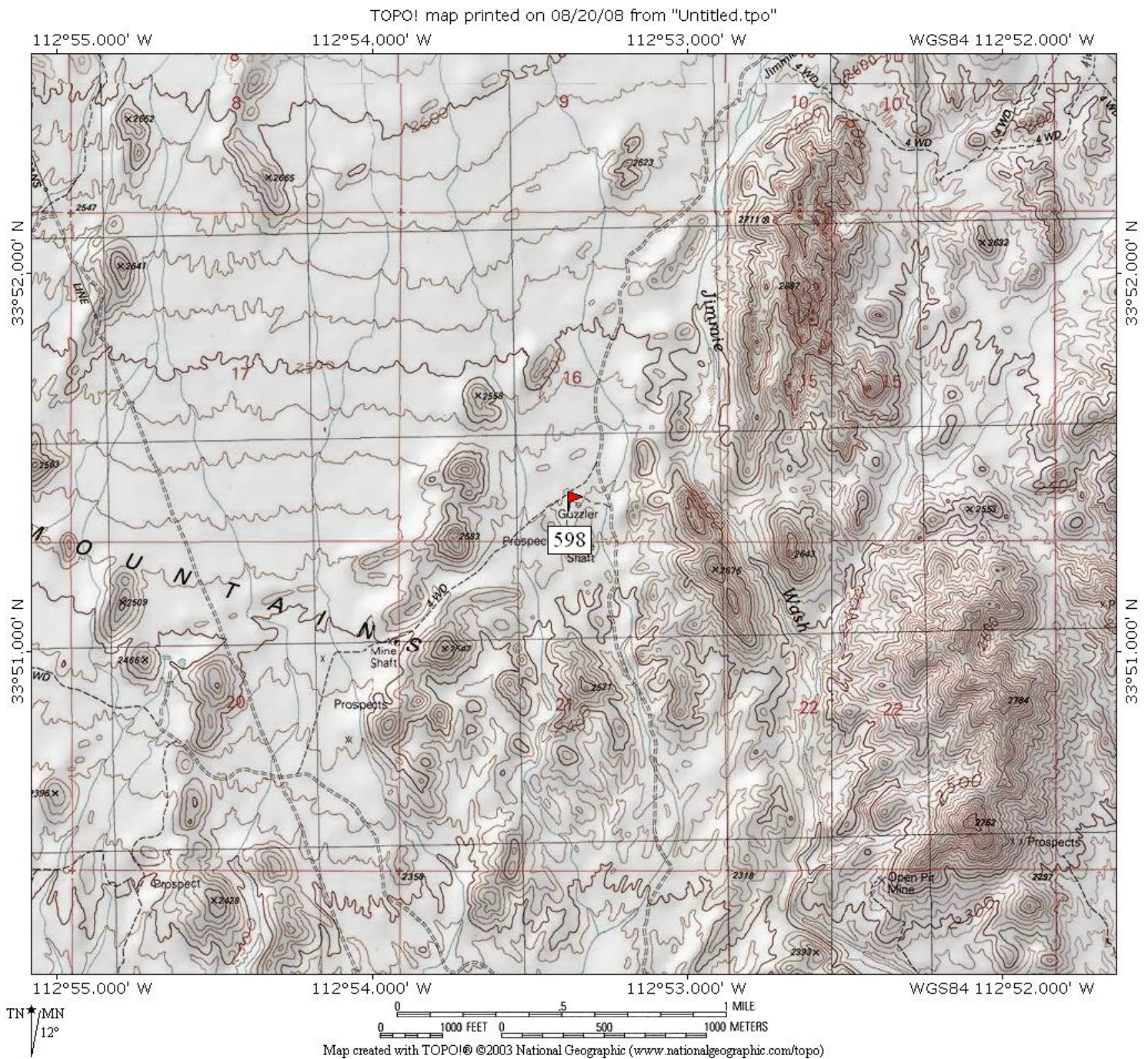
ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT NAME: Redevelopment of Vulture Mtns. #4 Mule Deer Catchment

- 1) **Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?"** Yes.
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Ed Jahrke 8/20/08, 8/26/09
Joseph Currie 8/20/08
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
 2-4 4-6 X6-8 8-10 10-12 12-14 14-16 >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
 X YES (please complete #5 below) NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Vulture Mountains #5 (AZGFD #599)
Type of water source (catchment, spring, dirt tank, etc.): Catchment
Ownership of water source: AGFD
Distance in miles from project: 3.06 miles
- 6) **Is the target wildlife species a result of transplant efforts?** YES X NO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**
N/A
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles X 4x4 only foot only**
**If foot access only: Distance in miles: Approx. hiking time:

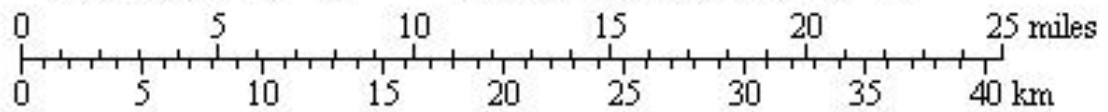
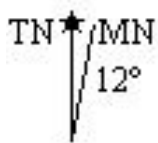
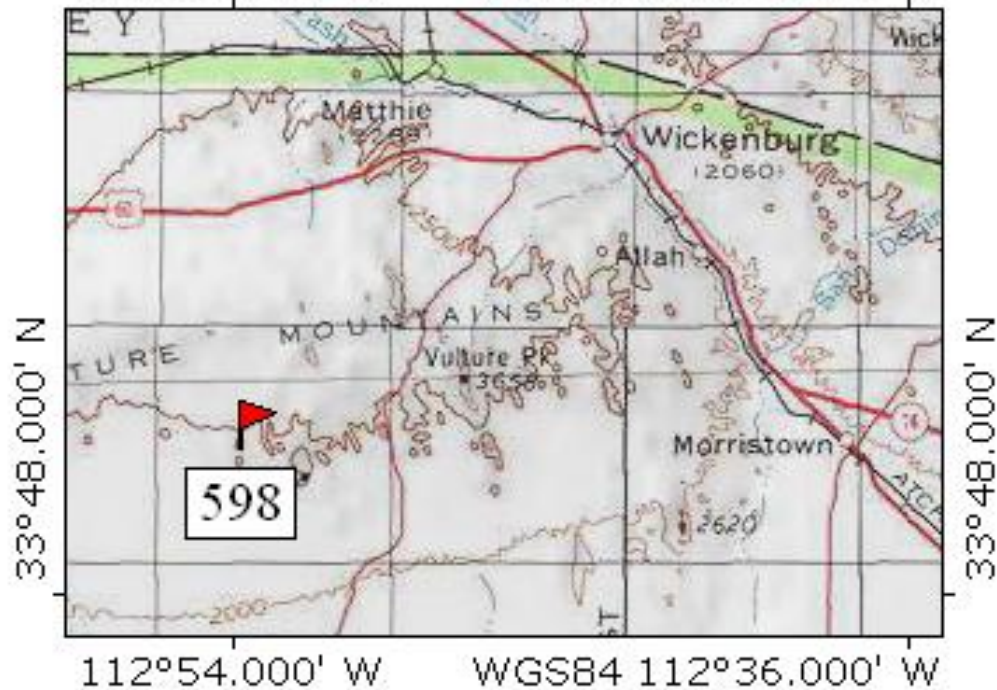
-- Does access to this site require crossing private or tribal lands? YES X NO

-- Please describe any restrictions to public access.
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
- 10) **Was a site visit completed?** X Yes No
If Yes, please list personnel that attended and date.
Dave Conrad and Craig Heath on August 9, 2008



TOPO! map printed on 08/20/08 from "Untitled.tpo"

112°54.000' W WGS84 112°36.000' W



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

